

REMARKS

Claims 1 and 3-14 are pending in this application. Claims 1 and 5 are currently amended. Support for the changes to claims 1 and 5 may be found in the specification as originally filed, for example, at page 8, lines 20-22.

I. The Rejection Based on Yuji in view of Wakayama et al

Claims 1, 3, 6-7, and 9-14 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Yuji (Japan No. 06-219762) in view of Wakayama et al.

Claims 4-5 are rejected under 35 U.S.C. §103(a) as being unpatentable over Yuji (Japan No. 06-219762) in view of Wakayama et al, and further in view of Ishikawa.

Applicants respectfully submit that the present invention is not rendered obvious over the disclosures of Yuji in view of the Wakayama et al, alone, or in view of Ishikawa, request that the Examiner reconsider and withdraw these rejections in view of the following remarks.

As previously set forth, Yuji aims to forming a scribe line on, for example, a specific glass having a large strength, which is different from the present invention, which is capable of forming a scribe line on a brittle material. Therefore, the diamond wheel itself and the aim or object of the present invention to be achieved are different from that of Yuji. In addition, a diamond film disclosed in Yuji is a deposited flat film, which is quite different from the diamond grain of the present invention as clearly defined in the amended claim 1.

The glass scribing disc disclosed in Wakayama et al is not usable for a brittle material. The shape of the peripheral edge 13 provides a trapezoidal protrusions 14 having flat front ends,

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and due to such trapezoidal protrusions 14 having flat front ends, good biting to an object to be worked is not provided.

To further distinguish the claimed invention from the disclosures of the cited art, Applicants have amended independent claims 1 and 5 to recite that the diamond grains having 1000 to 8000 mesh are held to the blade by a bonding agent, where the diamond wheel is pressurized or sintered and the diamond grains are adhered to the diamond wheel by the bonding agent.

Applicants respectfully submit that the cited art does not teach or disclose Applicants' claimed diamond wheel for forming a scribe line on a surface of a brittle material, including the combination of the claimed V-section, diamond grain sizes, adhering by a bonding agent and pressuring or sintering, and the pitch between the diamond grains at the front edge of the V-shaped blade.

Even if the cited references are combined, it is respectfully submitted that it would not have been obvious to one of ordinary skill in the art to select the inventive diamond wheel, in which a good-conditioned scribe line can be formed on a brittle material.

For the above reasons, it is respectfully submitted that the subject matter of claims 1, 3, 4-7, and 9-14 is neither taught by nor made obvious from the disclosures of Yuji and Wakayama et al, either alone or in combination with Ishikawa et al, and it is requested that the rejections under 35 U.S.C. §103(a) be reconsidered and withdrawn.

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II. Conclusion

In view of the above, Applicants respectfully submit that their claimed invention is allowable and ask that the rejections under 35 U.S.C. §103 be reconsidered and withdrawn. Applicants respectfully submit that this case is in condition for allowance and allowance is respectfully solicited.

If any points remain at issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the local exchange number listed below.

If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,
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